IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-41. (Canceled).

42. (Currently Amended) A data transmission method for use in a mobile communication system, the method comprising ~~the steps of~~:

establishing a radio bearer between a mobile terminal and a radio access network of the mobile communication system,

receiving, at the mobile terminal, radio bearer mapping~~, from the radio access network,~~ information from the radio access network, wherein the radio bearer mapping information: (1) includes ~~including~~ a priority assigned to a logical channel that is mapped on a transport channel and (2) indicates ~~indicating~~ a scheduling mode out of plural scheduling modes of the logical channel,

mapping the radio bearer to the logical channel at the mobile terminal based on the received information, and

transmitting by the mobile terminal the data via the transport channel.

43. (Currently Amended) The data transmission method according to claim 42, further comprising selecting by the mobile terminal a transport format combination to be used for transmitting data based on at least the priority assigned to the logical channel.

44. (Previously Presented) The data transmission method according to claim 43, further comprising setting a flag according to the indicated scheduling mode of the logical channel, and

wherein the transport format combination is selected based on the flag and the priority assigned to the logical channel.

45. (Previously Presented) The data transmission method according to claim 43, wherein the data is transmitted using the selected transport format combination.

46. (Previously Presented) The data transmission method according to claim 42, further comprising multiplexing the data to the transport channel based on a flag set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

47. (Currently Amended) The data transmission method according to claim 42, further comprising receiving, at the mobile terminal, signaling information from the radio access network indicating the scheduling mode of the radio bearer.

48. (Currently Amended) The data transmission method according to claim 44 ~~42~~, wherein the ~~a~~ flag ~~set according to the indicated scheduling mode~~ indicates whether to prioritize the transmission of the data on the logical channel.

49. (Previously Presented) The data transmission method according to claim 42, wherein the data is transmitted on an enhanced dedicated uplink channel.

50. (Previously Presented) The data transmission method according to claim 42, wherein the radio bearer is mapped on at least two logical channels each being assigned a priority.

51. (Previously Presented) The data transmission method according to claim 42, wherein the scheduling mode is either a time and rate controlled scheduling mode or a rate controlled scheduling mode.

52. (Currently Amended) The data transmission method ~~mobile terminal~~ according to claim 42, further comprising setting at the mobile terminal a flag according to the indicated scheduling mode of the logical channel.

53. (Currently Amended) A mobile terminal for use in a mobile communication system, the mobile terminal comprising:

a processing unit that establishes ~~operable to establish~~ a radio bearer between the mobile terminal and a radio access network,

a receiving unit that receives ~~operable to receive~~, from the radio access network of the mobile communication system, radio bearer mapping information including a priority assigned

to a logical channel that is mapped on a transport channel and indicating a scheduling mode out of plural scheduling modes of the logical channel,

a mapping unit that maps ~~operable to map~~ the radio bearer to the logical channel based on the received information, and

a transmitting unit that transmits ~~operable to transmit~~ the data via the transport channel.

54. (Currently Amended) The mobile terminal according to claim 53, further comprising a selecting unit that selects ~~operable to select~~ a transport format combination to be used for transmitting data based on at least the priority.

55. (Currently Amended) The mobile terminal according to claim 54, wherein the selecting unit selects ~~is operable to select~~ the transport format combination based on a flag being set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

56. (Currently Amended) The mobile terminal according to claim 54, wherein the transmitting unit transmits ~~is operable to transmit~~ the data using the selected transport format combination.

57. (Currently Amended) The mobile terminal according to claim 53, wherein the transmitting unit multiplexes ~~is operable to multiplex~~ the data to the transport channel based on a

flag set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

58. (Currently Amended) The mobile terminal according to claim 53, wherein the receiving unit receives ~~is operable to receive~~ signaling information from the radio access network indicating the scheduling mode of the radio bearer.

59. (Currently Amended) The mobile terminal according to claim 55 ~~53~~, wherein the ~~a~~ flag ~~set according to the indicated scheduling mode~~ indicates whether to prioritize the transmitting of the data on the logical channel.

60. (Currently Amended) The mobile terminal according to claim 53, wherein the transmitting unit transmits ~~is operable to transmit~~ the data on an enhanced dedicated uplink channel.

61. (Currently Amended) The mobile terminal according to claim 53, wherein the mapping unit maps the radio bearer ~~is mapped~~ on at least two logical channels each being assigned a priority.

62. (Previously Presented) The mobile terminal according to claim 53, wherein the scheduling mode is either a time and rate controlled scheduling mode or a rate controlled scheduling mode.

63. (Currently Amended) A computer readable medium storing instructions that, when executed by a processor of a mobile terminal, cause the mobile terminal to perform data transmissions, by:

establishing a radio bearer between a mobile terminal and a radio access network,

receiving, at the mobile terminal, radio bearer mapping, ~~from the radio access network,~~ information from the radio access network, wherein the radio bearer mapping information: (1) includes ~~including~~ a priority assigned to a logical channel that is mapped on a transport channel and (2) indicates ~~indicating~~ a scheduling mode out of plural scheduling modes of the logical channel,

mapping the radio bearer to the logical channel based on the received information, and

transmitting the data via the transport channel.

64. (Previously Presented) The data transmission method according to claim 44, wherein the data is transmitted using the selected transport format combination.

65. (Currently Amended) The mobile terminal according to claim 55, wherein the transmitting unit transmits ~~is operable to transmit~~ the data using the selected transport format combination.